

## RenaLife™ Cell Culture Medium Specification Sheet



### RenaLife Cell Culture Medium

RenaLife is optimized for the culture of Human Renal Epithelial Cells. RenaLife supports the growth of these cells over a period of at least 15 population doublings.

RenaLife Basal Medium contains no antimicrobials and no phenol red. Lifeline offers antimicrobials and phenol red; however, they are not required for eukaryotic cell proliferation.

### RenaLife Cell Culture Medium Components

RenaLife is offered in a kit format composed of basal medium and associated supplements and growth factors called "LifeFactors®." This kit allows you to prepare fresh medium in your laboratory, extending shelf life and enhancing performance. RenaLife Basal Medium is provided in a light-protected 500 mL

bottle. The remaining LifeFactors (growth factors and supplements) are packaged in a convenient gas-impermeable pouch for easy storage.

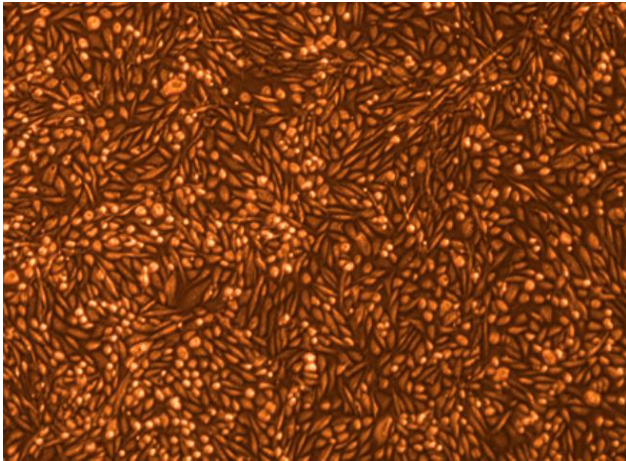
Product	Part No.	Volume	Final Concentrations in Supplemented Medium	Storage
<b>RenaLife Medium Complete Kit, (RenaLife Basal Medium, RenaLife LifeFactors Kit)</b>	<a href="#">LL-0025</a>			2-8°C when prepared
<b>RenaLife Basal Medium</b>	<a href="#">LM-0010</a>	485 mL		2-8°C
<b>RenaLife LifeFactors Kit</b>	<a href="#">LS-1048</a>			-20°C
rh Insulin LifeFactor	<a href="#">LS-1004</a>	0.5 mL	5 µg/mL	-20°C
Epinephrine LifeFactor	<a href="#">LS-1032</a>	0.5 mL	1 µM	-20°C
Hydrocortisone Hemisuccinate LifeFactor	<a href="#">LS-1039</a>	0.5 mL	0.1 µg/mL	-20°C
FBS LifeFactor	<a href="#">LS-1042</a>	2.5 mL	0.5%	-20°C
Triiodothyronine LifeFactor	<a href="#">LS-1044</a>	0.5 mL	10 nM	-20°C
rh EGF LifeFactor	<a href="#">LS-1046</a>	1 mL	10 ng/mL	-20°C
Transferrin PS LifeFactor	<a href="#">LS-1052</a>	0.5 mL	5 µg/mL	-20°C
L-Alanyl-L-Glutamine LifeFactor	<a href="#">LS-1053</a>	6 mL	2.4 mM	-20°C
Antimicrobial Supplement: Gentamicin and Amphotericin B (Provided with purchase of LL-0025)	<a href="#">LS-1104</a>	0.5 mL	Gentamicin 30 µg/mL Amphotericin B 15 ng/mL	-20°C
<b>Optional Supplements</b>	<b>Part No.</b>	<b>Volume</b>	<b>Concentrations of Supplement</b>	<b>Storage</b>
Calcium Chloride LifeFactor	<a href="#">LS-1062</a>	1 mL	890 mM	RT
Calcium Chloride LifeFactor	<a href="#">LS-1087</a>	0.5 mL	140 mM	RT
Phenol Red Supplement	<a href="#">LS-1009</a>	1 mL	33 mM	RT

### Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates ISO style quality assurance in every production run. Exacting standards and production procedures ensure lot-to-lot consistency. Every production lot of RenaLife Medium is extensively tested using Human Renal Epithelial Cells. RenaLife Medium and Gentamicin-Amphotericin B ([LS-1104](#)) are cell culture tested separately.

- Sterility Testing      Negative for bacterial and fungal growth
- pH                        7.5 +/- 0.2
- Cell Testing            Rate of proliferation and morphology
- Osmolality            315 +/- 10 mOsm
- Endotoxin            < 0.5 EU/mL

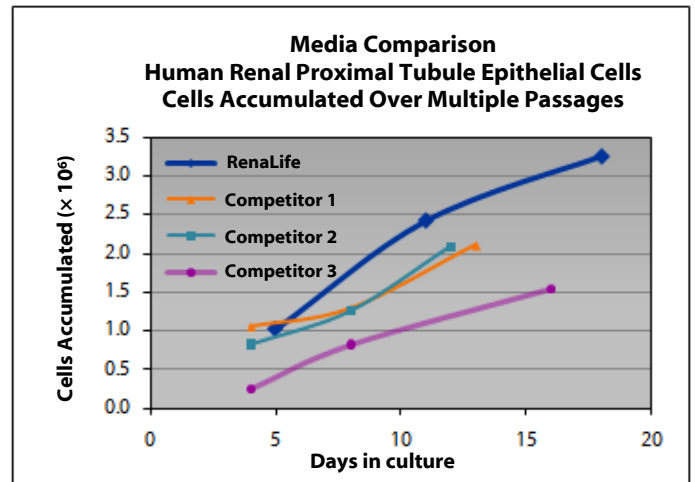
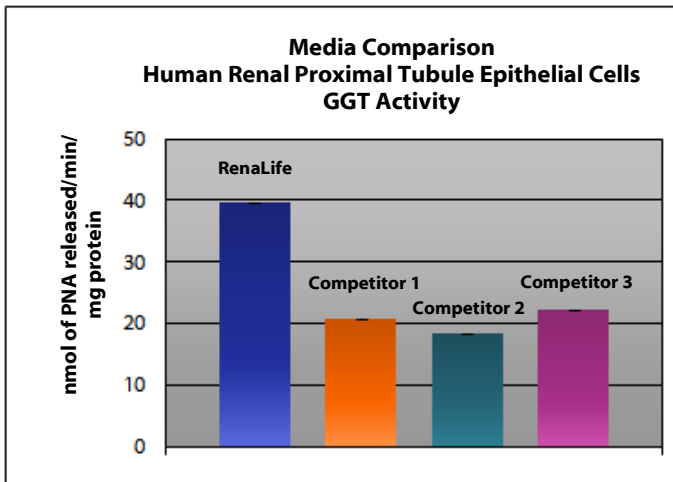
To place an order, please visit [lifelinecelltech.com](http://lifelinecelltech.com) or call technical and customer service at 877.845.7787.



RenalLife™ Medium grows Human Renal Epithelial Cells through at least 15 population doublings at rates that are comparable to other commercially available low-serum media while maintaining more characteristic epithelial morphology, e.g. more compact cuboidal shape, high refractive index and clarity of the cytoplasm.

Shown left: Renal Cortical Epithelial Cells, third subculture (100X).

Shown below: gamma-Glutamyltransferase (GGT) assay. The substrate (gamma-glutamyl-p-nitroanilide) and acceptor molecule (glycylglycine) are incubated with the cells in a sodium phosphate buffer for 30 minutes at 37°C. The released product is p-nitroaniline (PNA). The absorbance at 405 nm is measured and compared against a standard curve of PNA. Protein is quantified using a modified Bradford method.



### The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. Upon request, Lifeline will provide lot-specific QC test results, material safety data sheets and certificates of analysis. See complete guarantee/warranty statement at [lifelinecelltech.com](http://lifelinecelltech.com) or contact your Lifeline representative for more information.

### Innovative Packaging Features

Lifeline has made significant improvements to traditional medium packaging.

- The specially designed shrink label works as a light barrier to help protect medium from light damage.
- A barrier sleeve helps protect the medium from contaminants found in the water bath.
- Lifeline is an environmentally friendly company. Our cell culture media bottles are recyclable and we ship all products with biodegradable packing material.

### Safety Statement

This product is for Research Use Only. This product is not approved for human or veterinary use, or for use in *in vitro* diagnostics or clinical procedures.

**Call Lifeline Technical Service and Sales at 877.845.7787**  
or visit [lifelinecelltech.com](http://lifelinecelltech.com) for more information

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